

D1 SUB E6 } Claim 141 (Twice Amended):

The method according to claim 132, wherein said case control population is a random population.

D2 SUB E6 } Claim 151 (Twice Amended):

The method according to claim 121, wherein said PCTA-1-related biallelic marker is selected from the group consisting of biallelic markers of SEQ ID No:12 located at positions 278, 402, 472, 2955, 12167, 12536, 17593, 17606, 22079, 28964, 29003, 31077, 31766, 34791, 45751, 49847, 49855, 49886, 49900, 49906, 49921, 49939, 50256, 54955, 64239, 65436, 65496, 66967, 66987, 67092, 67129, 67229, 67433, 67723, 67834, 67955, 68213, 68263, 68375, 68477, 68525, 68594, 68610, 70566, 70728, 80038, 80118, 80170, 80183, 80435, 82090, 82165, 82169, 82218, 82234, 82268, 82393, 83587, 83643, 83644, 83808, 83881, 83884, 83909, 83937, 83947, 83982, 83988, 84047, 84092, 84145, 85202, 86259, 86323, 87713, 87735, 87787, 87806, 87860, 87902, 87980, 88012, 88215, 88283, 88297, 88442, 88471, 88480, 89394, 89464, 89471, 89658, 92760, 93023, 93055, 93247, 93319, 93323, 93388, 93393, 93418, 93515, 93726, 93903, 94170, 94218, 94269, 94290, 94422, 94432, 94720, 94989, 95261, 95340, 95497, 95770, 95819, 96145, 96181, 96350, 96951, 97144, 97276, 102267, 105937 and complements thereof.

D3 SUB E7 } Claim 152 (Thrice Amended):

The method according to claim 150, wherein said PCTA-1-related biallelic marker is at least one PCTA-1-related biallelic marker located at position 402, 67092, 68525, 82234, or 82393 of SEQ ID No:12, and any complement thereof.

D4 SUB E8 } Claim 167 (Amended):

The method according to claim 131, wherein said PCTA-1-related biallelic marker is selected from the group consisting of biallelic markers of SEQ ID No:12 located at positions 278, 402, 472, 2955, 12167, 12536, 17593, 17606, 22079, 28964, 29003, 31077, 31766, 34791, 45751, 49847, 49855, 49886, 49900, 49906, 49921, 49939, 50256, 54955, 64239, 65436, 65496, 66967, 66987, 67092, 67129, 67229, 67433, 67723, 67834, 67955, 68213, 68263, 68375, 68477, 68525, 68594,

68610, 70566, 70728, 80038, 80118, 80170, 80183, 80435, 82090, 82165, 82169, 82218, 82234, 82268, 82393, 83587, 83643, 83644, 83808, 83881, 83884, 83909, 83937, 83947, 83982, 83988, 84047, 84092, 84145, 85202, 86259, 86323, 87713, 87735, 87787, 87806, 87860, 87902, 87980, 88012, 88215, 88283, 88297, 88442, 88471, 88480, 89394, 89464, 89471, 89658, 92760, 93023, 93055, 93247, 93319, 93323, 93388, 93393, 93418, 93515, 93726, 93903, 94170, 94218, 94269, 94290, 94422, 94432, 94720, 94989, 95261, 95340, 95497, 95770, 95819, 96145, 96181, 96350, 96951, 97144, 97276, 102267, 105937 and complements thereof.

Claim 168 (Amended):

The method according to claim 132, wherein said PCTA-1-related biallelic marker is selected from the group consisting of biallelic markers of SEQ ID No:12 located at positions 278, 402, 472, 2955, 12167, 12536, 17593, 17606, 22079, 28964, 29003, 31077, 31766, 34791, 45751, 49847, 49855, 49886, 49900, 49906, 49921, 49939, 50256, 54955, 64239, 65436, 65496, 66967, 66987, 67092, 67129, 67229, 67433, 67723, 67834, 67955, 68213, 68263, 68375, 68477, 68525, 68594, 68610, 70566, 70728, 80038, 80118, 80170, 80183, 80435, 82090, 82165, 82169, 82218, 82234, 82268, 82393, 83587, 83643, 83644, 83808, 83881, 83884, 83909, 83937, 83947, 83982, 83988, 84047, 84092, 84145, 85202, 86259, 86323, 87713, 87735, 87787, 87806, 87860, 87902, 87980, 88012, 88215, 88283, 88297, 88442, 88471, 88480, 89394, 89464, 89471, 89658, 92760, 93023, 93055, 93247, 93319, 93323, 93388, 93393, 93418, 93515, 93726, 93903, 94170, 94218, 94269, 94290, 94422, 94432, 94720, 94989, 95261, 95340, 95497, 95770, 95819, 96145, 96181, 96350, 96951, 97144, 97276, 102267, 105937 and complements thereof.

Claim 169 (Amended):

The method according to claim 133, wherein said PCTA-1-related biallelic marker is selected from the group consisting of biallelic markers of SEQ ID No:12 located at positions 278, 402, 472, 2955, 12167, 12536, 17593, 17606, 22079, 28964, 29003, 31077, 31766, 34791, 45751, 49847, 49855, 49886, 49900, 49906, 49921, 49939, 50256, 54955, 64239, 65436, 65496, 66967, 66987, 67092, 67129, 67229, 67433, 67723, 67834, 67955, 68213, 68263, 68375, 68477, 68525, 68594, 68610, 70566, 70728, 80038, 80118, 80170, 80183, 80435, 82090, 82165, 82169, 82218, 82234,

82268, 82393, 83587, 83643, 83644, 83808, 83881, 83884, 83909, 83937, 83947, 83982, 83988, 84047, 84092, 84145, 85202, 86259, 86323, 87713, 87735, 87787, 87806, 87860, 87902, 87980, 88012, 88215, 88283, 88297, 88442, 88471, 88480, 89394, 89464, 89471, 89658, 92760, 93023, 93055, 93247, 93319, 93323, 93388, 93393, 93418, 93515, 93726, 93903, 94170, 94218, 94269, 94290, 94422, 94432, 94720, 94989, 95261, 95340, 95497, 95770, 95819, 96145, 96181, 96350, 96951, 97144, 97276, 102267, 105937, and complements thereof.

Claim 170 (Amended):

The method according to claim 135, wherein said PCTA-1-related biallelic marker is selected from the group consisting of biallelic markers of SEQ ID No:12 located at positions 278, 402, 472, 2955, 12167, 12536, 17593, 17606, 22079, 28964, 29003, 31077, 31766, 34791, 45751, 49847, 49855, 49886, 49900, 49906, 49921, 49939, 50256, 54955, 64239, 65436, 65496, 66967, 66987, 67092, 67129, 67229, 67433, 67723, 67834, 67955, 68213, 68263, 68375, 68477, 68525, 68594, 68610, 70566, 70728, 80038, 80118, 80170, 80183, 80435, 82090, 82165, 82169, 82218, 82234, 82268, 82393, 83587, 83643, 83644, 83808, 83881, 83884, 83909, 83937, 83947, 83982, 83988, 84047, 84092, 84145, 85202, 86259, 86323, 87713, 87735, 87787, 87806, 87860, 87902, 87980, 88012, 88215, 88283, 88297, 88442, 88471, 88480, 89394, 89464, 89471, 89658, 92760, 93023, 93055, 93247, 93319, 93323, 93388, 93393, 93418, 93515, 93726, 93903, 94170, 94218, 94269, 94290, 94422, 94432, 94720, 94989, 95261, 95340, 95497, 95770, 95819, 96145, 96181, 96350, 96951, 97144, 97276, 102267, 105937 and complements thereof.

Claim 171 (Amended):

The method according to claim 150, wherein said PCTA-1-related biallelic marker is selected from the group consisting of biallelic markers of SEQ ID No:12 located at positions 278, 402, 472, 2955, 12167, 12536, 17593, 17606, 22079, 28964, 29003, 31077, 31766, 34791, 45751, 49847, 49855, 49886, 49900, 49906, 49921, 49939, 50256, 54955, 64239, 65436, 65496, 66967, 66987, 67092, 67129, 67229, 67433, 67723, 67834, 67955, 68213, 68263, 68375, 68477, 68525, 68594, 68610, 70566, 70728, 80038, 80118, 80170, 80183, 80435, 82090, 82165, 82169, 82218, 82234, 82268, 82393, 83587, 83643, 83644, 83808, 83881, 83884, 83909, 83937, 83947, 83982, 83988,

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84047, 84092, 84145, 85202, 86259, 86323, 87713, 87735, 87787, 87806, 87860, 87902, 87980, 88012, 88215, 88283, 88297, 88442, 88471, 88480, 89394, 89464, 89471, 89658, 92760, 93023, 93055, 93247, 93319, 93323, 93388, 93393, 93418, 93515, 93726, 93903, 94170, 94218, 94269, 94290, 94422, 94432, 94720, 94989, 95261, 95340, 95497, 95770, 95819, 96145, 96181, 96350, 96951, 97144, 97276, 102267, 105937 and complements thereof.

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Claim 173 (Amended):

The method according to claim 172, wherein said combination of markers is located at positions 67092 and 68525 of SEQ ID No:12.

Claim 174 (Amended):

The method according to claim 172, wherein said combination of markers is located at positions 402, 67092, and 68525 of SEQ ID No:12.

Claim 175 (Amended):

The method according to claim 172, wherein said combination of markers is located at positions 402 and 82393 of SEQ ID No:12.

Claim 176 (Amended):

The method according to claims 172, wherein said combination of markers is located at positions 402, 67092, 68525, 82234, and 82393 of SEQ ID No:12.

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Claim 177 (Amended):

The method according to claim 133, wherein said PCTA-1-related biallelic marker is at least one PCTA-1-related biallelic marker located at position 402, 67092, 68525, 82234, or 82393 of SEQ ID No:12, and any complement thereof.

Claim 179 (Amended):

06 The method according to claim 177, wherein said combination of markers is located at positions 67092 and 68525 of SEQ ID No:12.

Claim 180 (Amended):

The method according to claim 177, wherein said combination of markers is located at positions 402, 67092, and 68525 of SEQ ID No:12.

Claim 181 (Amended):

The method according to claim 177, wherein said combination of markers is located at positions 402 and 82393 of SEQ ID No:12.

Claim 182 (Amended):

The method according to claims 177, wherein said combination of markers is located at positions 402, 67092, 68525, 82234, and 82393 of SEQ ID No:12.
